What is claimed is:

1. A perpendicular magnetic recording medium comprising:

a magnetic layer formed above a substrate, said magnetic layer containing Co and Cr as a main component;

a first layer formed on an opposite side of the magnetic layer relative to the substrate, said first layer including an amorphous alloy layer containing rare earth metals and 3d transition metals as a main component; and

a second layer formed on said first layer, said second layer containing Co and Cr.

2. The perpendicular magnetic recording medium according to claim 1, wherein said first layer is a multilayer film including the amorphous alloy layers containing the rare earth metals and the 3d transition metals as the main component and other layers.

3. The perpendicular magnetic recording medium according to claim 2, wherein said multilayer film is one composed of the amorphous alloy layers containing the rare earth metals and the 3d transition metals as the main component and an alloy film containing Co and Cr as a main component.

4. The perpendicular magnetic recording medium according to claim 1, wherein a thickness of said first layer ranges from 2 nm to 10 nm.

5. The perpendicular magnetic recording medium according to claim 1, wherein said first layer contains one of TbFeCo, TbCo and TbFe as a main component.

6. The perpendicular magnetic recording medium according to claim 1, wherein said second layer is formed of Co and Cr.

7. The perpendicular magnetic recording medium according to claim 1, wherein a thickness of said second layer ranges from 0.5 nm to 10 nm.

8. A magnetic storage apparatus comprising:

a perpendicular magnetic recording medium;

a magnetic recording head; and

a signal reproduction head,

wherein said perpendicular magnetic recording media include a magnetic layer formed on a substrate, the magnetic layer containing Co and Cr as a main component; a first layer formed on an opposite side of the magnetic layer relative to the substrate, said first layer including an amorphous alloy layer containing rare earth metals and 3d transition metals as a main component; and a second layer formed on said first layer including the amorphous alloy layer, said second layer containing Co and Cr.